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9. An antenna assembly as claimed in claim 1, wherein the assembly further comprises a relatively rigid base portion for connecting the assembly to the handheld telecommunication apparatus.

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22. A method of producing an antenna assembly comprising the steps of:

arranging a planar antenna element to be disposed on a substrate; and

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encapsulating the planar antenna element within a flexible member by means of an injection moulding process.

23. A method as claimed in claim 22 wherein the flexible member is produced by moulding operations performed on opposing sides of the substrate.

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53. A method as claimed in claim 24, wherein holes are provided through the substrate inside the circumference of the substrate.

54. A method as claimed in claim 53, wherein cohesive bonding between the moulding on each side occurs through said holes.

55. A method as claimed in claim 24, wherein the substrate is made of transparent polyester and the moulding on each side has a non-uniform thickness of a thermo plastic elastomer.

56. A method as claimed in claim 55, wherein the temperature of the thermo plastic elastomer is controlled during the injection moulding process to avoid damage to the polyester substrate.

*by [unclear] CS*  
57. A handheld telecommunication apparatus comprising:  
a planar antenna disposed on a substrate; and  
a flexible member encapsulating the planar antenna and the substrate, said flexible member arranged to protrude from a surface of the handheld telecommunication apparatus.

58. A handheld telecommunication apparatus as claimed in claim 57, wherein said flexible member includes moulding on each side of said substrate, said moulding extending beyond the outer edge of said substrate.

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